

Fig: 1

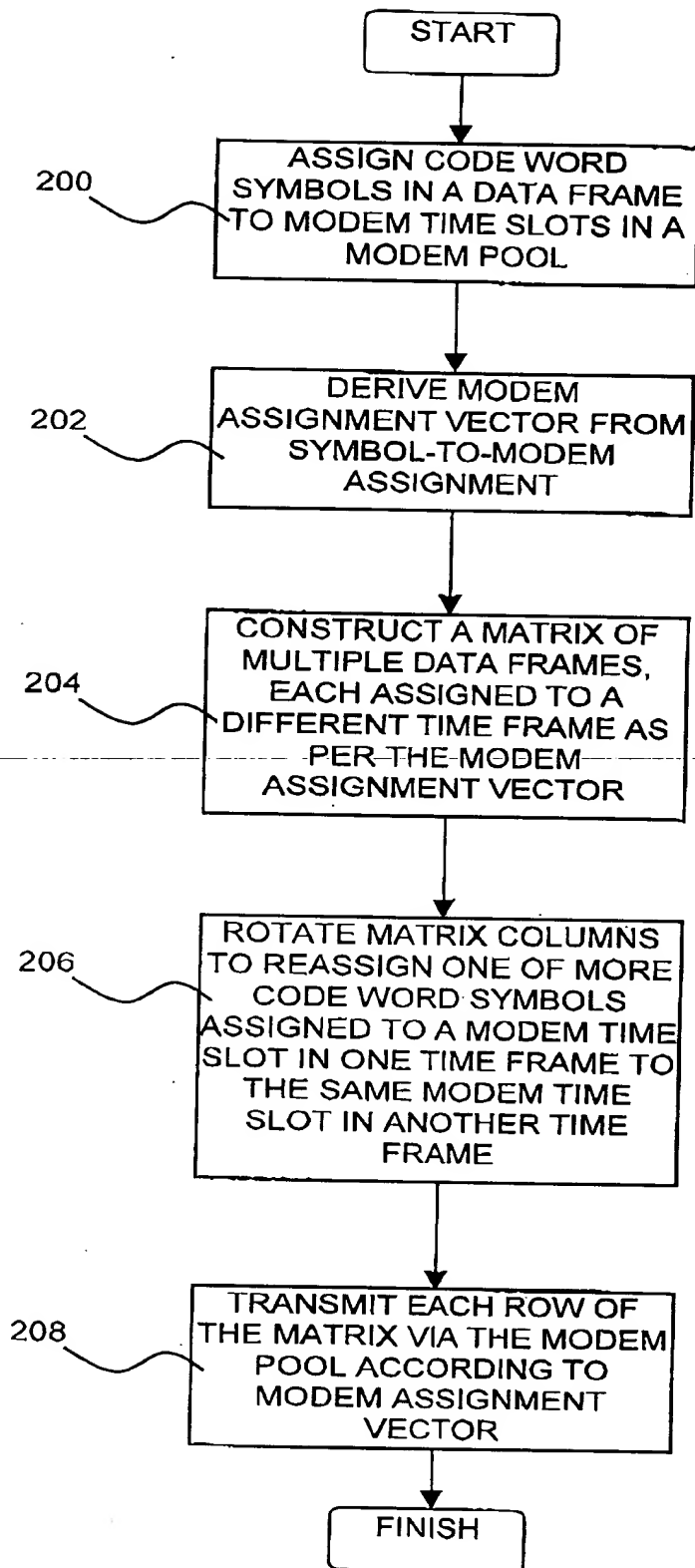
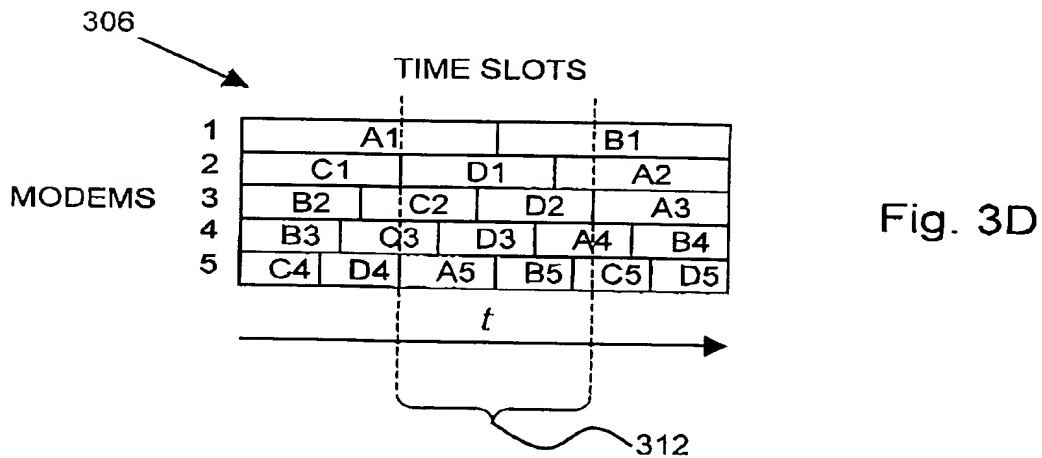
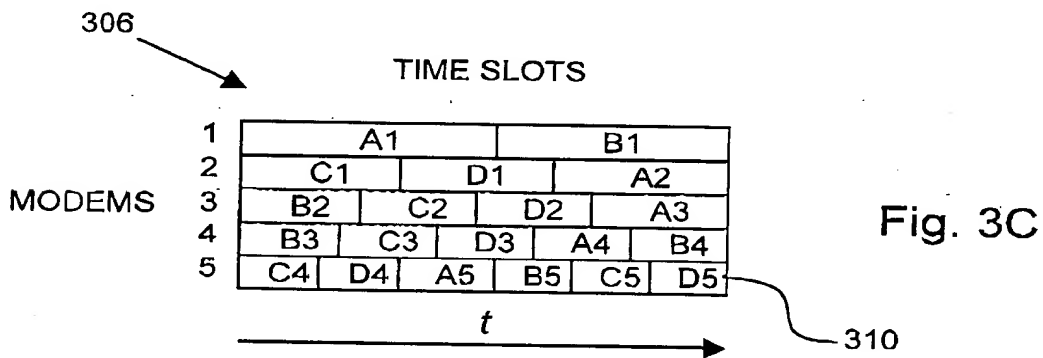
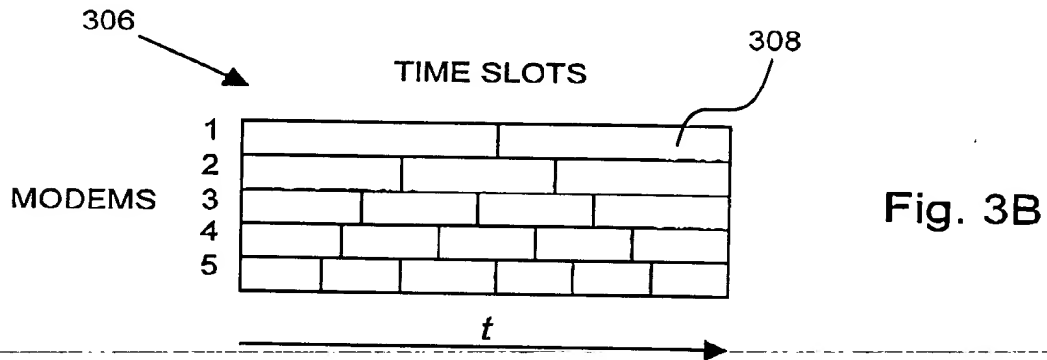
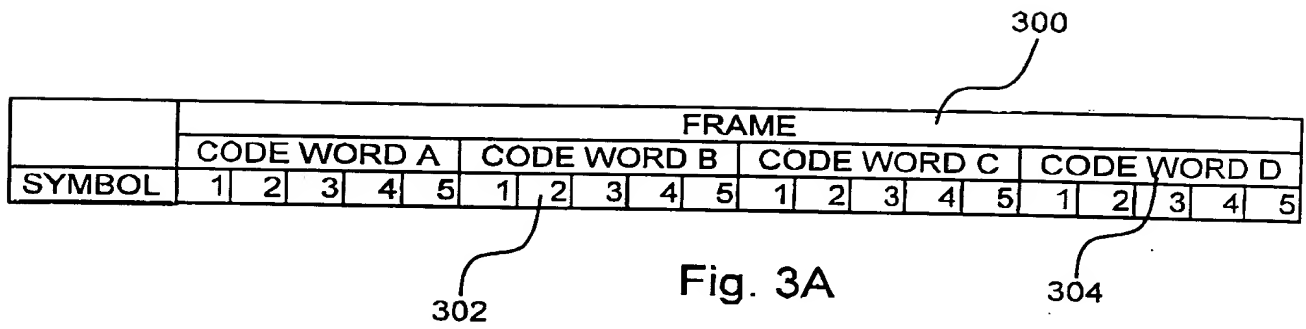


Fig. 2



| | | | | | | | | | | | | | | | | |
|--------|-------------|---|---|---|-------------|---|---|---|-------------|---|---|---|-------------|---|---|--|
| | FRAME | | | | | | | | | | | | | | | |
| | CODE WORD A | | | | CODE WORD B | | | | CODE WORD C | | | | CODE WORD D | | | |
| SYMBOL | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | |
| MODEM | 1 | 2 | 3 | 4 | 5 | 1 | 3 | 4 | 4 | 5 | 2 | 3 | 4 | 5 | 5 | |

316

318

314

Fig. 3E

| CODE WORD A | | | | | CODE WORD B | | | | CODE WORD C | | | | CODE WORD D | | | | | |
|-------------|---|---|---|---|-------------|---|---|---|-------------|---|---|---|-------------|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 1 | 3 | 4 | 4 | 5 | 2 | 3 | 4 | 5 | 2 | 3 | 4 | 5 | 5 |
| 1 | 2 | 3 | 4 | 5 | 1 | 3 | 4 | 4 | 5 | 2 | 3 | 4 | 5 | 2 | 3 | 4 | 5 | 5 |
| 1 | 2 | 3 | 4 | 5 | 1 | 3 | 4 | 4 | 5 | 2 | 3 | 4 | 5 | 2 | 3 | 4 | 5 | 5 |
| 1 | 2 | 3 | 4 | 5 | 1 | 3 | 4 | 4 | 5 | 2 | 3 | 4 | 5 | 2 | 3 | 4 | 5 | 5 |
| 1 | 2 | 3 | 4 | 5 | 1 | 3 | 4 | 4 | 5 | 2 | 3 | 4 | 5 | 2 | 3 | 4 | 5 | 5 |
| 1 | 2 | 3 | 4 | 5 | 1 | 3 | 4 | 4 | 5 | 2 | 3 | 4 | 5 | 2 | 3 | 4 | 5 | 5 |

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Fig. 3F

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |

322

Fig. 3G

322" → 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 ← 324

| | | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| 81 | 62 | 43 | 24 | 5 | 86 | 67 | 48 | 29 | 10 | 91 | 72 | 53 | 34 | 15 | 96 | 77 | 58 | 39 | 20 |
| 1 | 82 | 63 | 44 | 25 | 6 | 87 | 68 | 49 | 30 | 11 | 92 | 73 | 54 | 35 | 16 | 97 | 78 | 59 | 40 |
| 21 | 2 | 83 | 64 | 45 | 26 | 7 | 88 | 69 | 50 | 31 | 12 | 93 | 74 | 55 | 36 | 17 | 98 | 79 | 60 |
| 41 | 22 | 3 | 84 | 65 | 46 | 27 | 8 | 89 | 70 | 51 | 32 | 13 | 94 | 75 | 56 | 37 | 18 | 99 | 80 |
| 61 | 42 | 23 | 4 | 85 | 66 | 47 | 28 | 9 | 90 | 71 | 52 | 33 | 14 | 95 | 76 | 57 | 38 | 19 | 100 |

Fig. 3H

322" → 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 ← 324

| | | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| 1 | 22 | 43 | 64 | 85 | 6 | 27 | 48 | 69 | 90 | 11 | 32 | 53 | 74 | 95 | 16 | 37 | 58 | 79 | 100 |
| 81 | 2 | 23 | 44 | 65 | 86 | 7 | 28 | 49 | 70 | 91 | 12 | 33 | 54 | 75 | 96 | 17 | 38 | 59 | 80 |
| 61 | 82 | 3 | 24 | 45 | 66 | 87 | 8 | 29 | 50 | 71 | 92 | 13 | 34 | 55 | 76 | 97 | 18 | 39 | 60 |
| 41 | 62 | 83 | 4 | 25 | 46 | 67 | 88 | 9 | 30 | 51 | 72 | 93 | 14 | 35 | 56 | 77 | 98 | 19 | 40 |
| 21 | 42 | 63 | 84 | 5 | 26 | 47 | 68 | 89 | 10 | 31 | 52 | 73 | 94 | 15 | 36 | 57 | 78 | 99 | 20 |

Fig. 3I

322" → 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 ← 324

| | | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| 41 | 2 | 63 | 24 | 85 | 46 | 7 | 68 | 29 | 90 | 51 | 12 | 73 | 34 | 95 | 56 | 17 | 78 | 39 | 100 |
| 61 | 22 | 83 | 44 | 5 | 66 | 27 | 88 | 49 | 10 | 71 | 32 | 93 | 54 | 15 | 76 | 37 | 98 | 59 | 20 |
| 81 | 42 | 3 | 64 | 25 | 86 | 47 | 8 | 69 | 30 | 91 | 52 | 13 | 74 | 35 | 96 | 57 | 18 | 79 | 40 |
| 1 | 62 | 23 | 84 | 45 | 6 | 67 | 28 | 89 | 50 | 11 | 72 | 33 | 94 | 55 | 16 | 77 | 38 | 99 | 60 |
| 21 | 82 | 43 | 4 | 65 | 26 | 87 | 48 | 9 | 70 | 31 | 92 | 53 | 14 | 75 | 36 | 97 | 58 | 19 | 80 |

Fig. 3J

| INDEX | CODE WORD | FRAME | MODEM |
|-------|-----------|-------|-------|
| 1 | A1 | 1 | 1 |
| 22 | A2 | 2 | 2 |
| 43 | A3 | 3 | 3 |
| 64 | A4 | 4 | 4 |
| 85 | A5 | 5 | 5 |
| 6 | B1 | 1 | 1 |
| 27 | B2 | 2 | 3 |
| 48 | B3 | 3 | 4 |
| 69 | B4 | 4 | 4 |
| 90 | B5 | 5 | 5 |
| 11 | C1 | 1 | 2 |
| 32 | C2 | 2 | 3 |
| 53 | C3 | 3 | 4 |
| 74 | C4 | 4 | 5 |
| 95 | C5 | 5 | 5 |
| 16 | D1 | 1 | 2 |
| 37 | D2 | 2 | 3 |
| 58 | D3 | 3 | 4 |
| 79 | D4 | 4 | 5 |
| 100 | D5 | 5 | 5 |

Fig. 3K

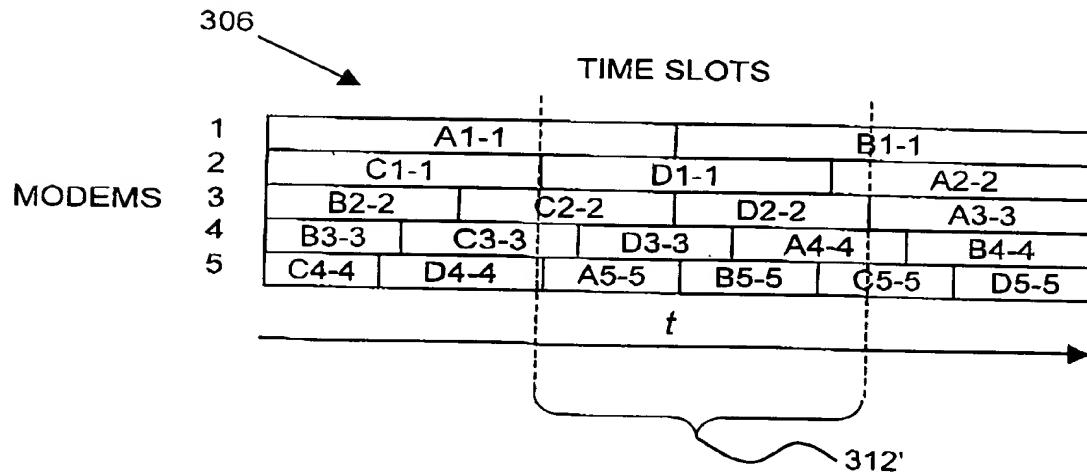


Fig. 3L

400 →

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 |
| 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 |
| 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 |
| 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 |
| 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 |
| 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 |
| 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 |
| 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 |
| 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 280 |
| 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 | 298 | 299 | 300 |
| 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 |
| 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 |
| 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 |
| 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 | 375 | 376 | 377 | 378 | 379 | 380 |
| 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 | 393 | 394 | 395 | 396 | 397 | 398 | 399 | 400 |

Fig. 4A

TABLE FOR "SETBACK"

314

| | | | | | | | | | | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODEM | 1 | 2 | 3 | 4 | 5 | 1 | 3 | 4 | 4 | 5 | 2 | 3 | 4 | 5 | 2 | 3 | 4 | 5 | 5 |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

402

| | | | | | | | | | | | | | | | | | | | |
|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | 21 | 41 | 61 | 81 | 101 | 121 | 141 | 161 | 181 | 201 | 221 | 241 | 261 | 281 | 301 | 321 | 341 | 361 | 381 |
| 2 | 22 | 42 | 62 | 82 | 102 | 122 | 142 | 162 | 182 | 202 | 222 | 242 | 262 | 282 | 302 | 322 | 342 | 362 | 382 |
| 3 | 23 | 43 | 63 | 83 | 103 | 123 | 143 | 163 | 183 | 203 | 223 | 243 | 263 | 283 | 303 | 323 | 343 | 363 | 383 |
| 4 | 24 | 44 | 64 | 84 | 104 | 124 | 144 | 164 | 184 | 204 | 224 | 244 | 264 | 284 | 304 | 324 | 344 | 364 | 384 |
| 5 | 25 | 45 | 65 | 85 | 105 | 125 | 145 | 165 | 185 | 205 | 225 | 245 | 265 | 285 | 305 | 325 | 345 | 365 | 385 |
| 6 | 26 | 46 | 66 | 86 | 106 | 126 | 146 | 166 | 186 | 206 | 226 | 246 | 266 | 286 | 306 | 326 | 346 | 366 | 386 |
| 7 | 27 | 47 | 67 | 87 | 107 | 127 | 147 | 167 | 187 | 207 | 227 | 247 | 267 | 287 | 307 | 327 | 347 | 367 | 387 |
| 8 | 28 | 48 | 68 | 88 | 108 | 128 | 148 | 168 | 188 | 208 | 228 | 248 | 268 | 288 | 308 | 328 | 348 | 368 | 388 |
| 9 | 29 | 49 | 69 | 89 | 109 | 129 | 149 | 169 | 189 | 209 | 229 | 249 | 269 | 289 | 309 | 329 | 349 | 369 | 389 |
| 10 | 30 | 50 | 70 | 90 | 110 | 130 | 150 | 170 | 190 | 210 | 230 | 250 | 270 | 290 | 310 | 330 | 350 | 370 | 390 |
| 11 | 31 | 51 | 71 | 91 | 111 | 131 | 151 | 171 | 191 | 211 | 231 | 251 | 271 | 291 | 311 | 331 | 351 | 371 | 391 |
| 12 | 32 | 52 | 72 | 92 | 112 | 132 | 152 | 172 | 192 | 212 | 232 | 252 | 272 | 292 | 312 | 332 | 352 | 372 | 392 |
| 13 | 33 | 53 | 73 | 93 | 113 | 133 | 153 | 173 | 193 | 213 | 233 | 253 | 273 | 293 | 313 | 333 | 353 | 373 | 393 |
| 14 | 34 | 54 | 74 | 94 | 114 | 134 | 154 | 174 | 194 | 214 | 234 | 254 | 274 | 294 | 314 | 334 | 354 | 374 | 394 |
| 15 | 35 | 55 | 75 | 95 | 115 | 135 | 155 | 175 | 195 | 215 | 235 | 255 | 275 | 295 | 315 | 335 | 355 | 375 | 395 |
| 16 | 36 | 56 | 76 | 96 | 116 | 136 | 156 | 176 | 196 | 216 | 236 | 256 | 276 | 296 | 316 | 336 | 356 | 376 | 396 |
| 17 | 37 | 57 | 77 | 97 | 117 | 137 | 157 | 177 | 197 | 217 | 237 | 257 | 277 | 297 | 317 | 337 | 357 | 377 | 397 |
| 18 | 38 | 58 | 78 | 98 | 118 | 138 | 158 | 178 | 198 | 218 | 238 | 258 | 278 | 298 | 318 | 338 | 358 | 378 | 398 |
| 19 | 39 | 59 | 79 | 99 | 119 | 139 | 159 | 179 | 199 | 219 | 239 | 259 | 279 | 299 | 319 | 339 | 359 | 379 | 399 |
| 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 | 260 | 280 | 300 | 320 | 340 | 360 | 380 | 400 |

Fig. 4B

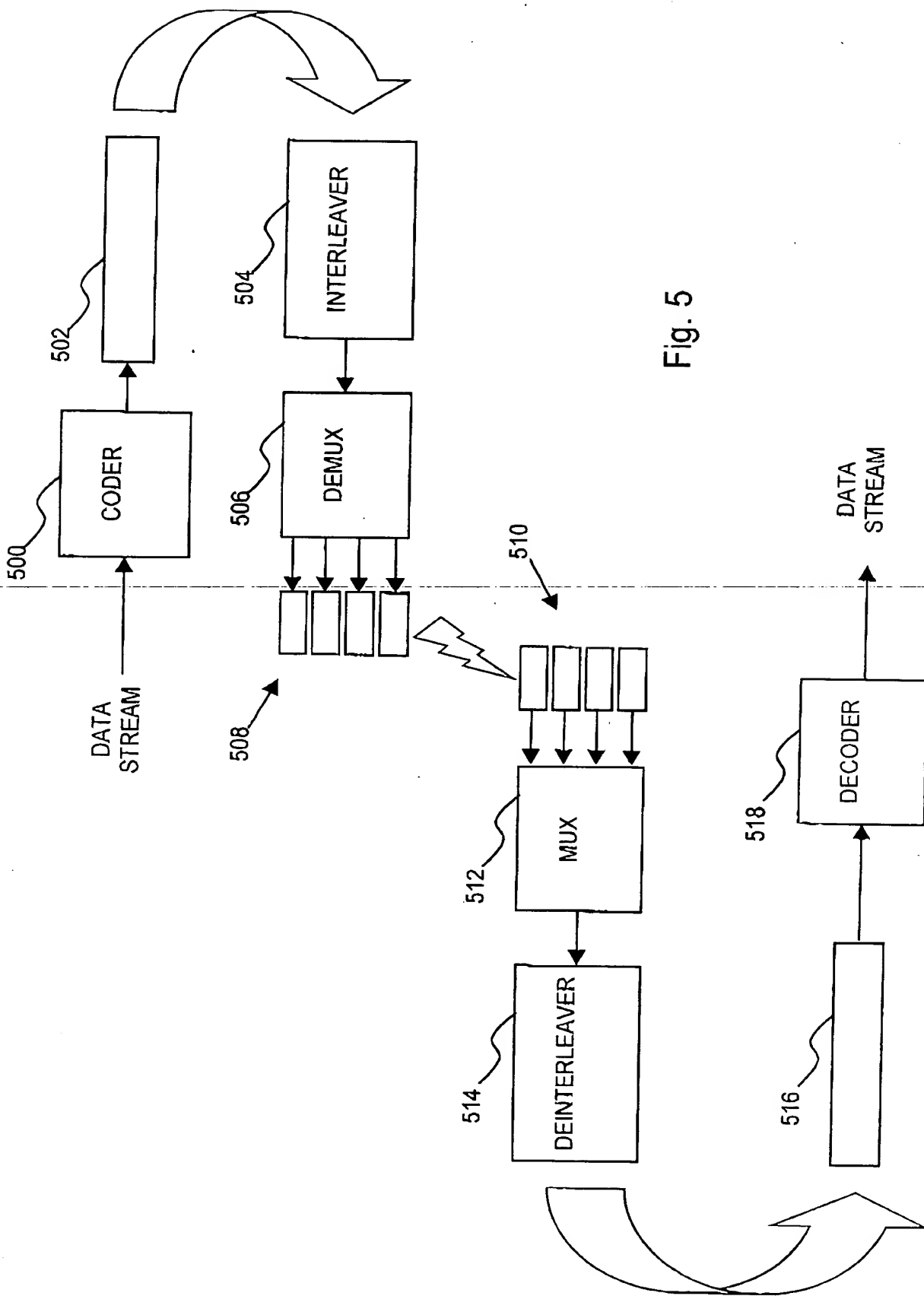


Fig. 5